

What is claimed is:

1. A galvano mirror unit, comprising:
  - a galvano mirror;
  - a rotor to which said galvano mirror is mounted;
  - a stator that rotatably supports said rotor about a rotation axis;
  - a pair of center pins provided to one of said rotor and said stator;
  - a pair of receive members provided to the other of said rotor and said stator, said receive members respectively receiving said center pins;
  - a pair of driving magnets provided at opposing ends of said rotor; and
  - a pair of driving coils provided to said stator, said pair of driving coils being faced with said driving magnets respectively;
  - each of said pair of driving magnets including a section of N-pole and a section of S-pole, both the N-pole section and the S-pole section of each driving magnet facing the same driving coil.
2. The galvano mirror unit of claim 1, wherein said center pins are provided to said rotor, while said receive members are provided to said stator.
3. The galvano mirror unit of claim 1, wherein said center pins are provided to said stator, while said receive members are provided to said rotor.
4. A galvano mirror unit, comprising:
  - a galvano mirror;

a rotor to which said galvano mirror is mounted;  
a stator that rotatably supports said rotor about a rotation axis;  
a pair of center pins provided to one of said rotor and said stator;  
a pair of receive members provided to the other of said rotor and said stator, said  
receive members respectively receiving said center pins; and

first and second driving coils provided to said stator, wherein said rotor has first  
and second sides that are respectively faced with said first and second coils, said first and  
second sides being magnetized;

each of first and second sides of said rotor includes sections of N-pole and S-pole,  
both the N-pole section and the S-pole section of each side of said rotor is faced with the  
same driving coil.